

A tree model for identification of threats as the first stage of risk assessment in HIS

Abstract

Security remains to be a critical issue in the safe operation of Information Systems (IS). Identifying the threats to IS may lead to an effective method for measuring security as the initial stage for risk management. Despite many attempts to classify threats to IS, new threats to Health Information Systems (HIS) remains a continual concern for system de-velopers. The main aim of this paper is to present a research agenda of threats to HIS. A cohesive completeness study on the identification of possible threats on HIS was conducted. This study reveals more than 70 threats for HIS. They are classified into 30 common criteria. The abstraction was carried out using secondary data from various research da-tabases. This work-in-progress study will proceed to the next stage of ranking the security threats for assessing risk in HIS. This classification of threats may provide some insights to both researchers and professionals, who are interested in conducting research in risk management of HIS security.